Moreno **D'Incà**

Ph.D. Student - Artificial Intelligence - Computer Vision

About me

I am a Ph.D. student at the *Multimedia and Human Understanding Group (MHUG)* – *University of Trento* (Italy), under the supervision of Prof. *Nicu Sebe*. My research focuses on generative AI, particularly in Text-to-Image generative models.
Before, I earned my Master's degree in Artificial Intelligence from the University of Trento (Italy) after completing my Master's thesis at the Queen Mary University of London (UK), an opportunity provided by the AI4Media Junior Fellows Exchange Program.

Personal Information

Name: **Moreno D'Incà**
Nationality: **Italian**
Birth Date: **11th May 1998**

Research Interests

`Image Synthesis`
`Fairness · Bias`
`Computer Vision`
`Deep Learning`
`Artificial Intelligence`

Accademic Service · Reviewer

European Conference on Computer Vision (ECCV) 2024

Awards and Grants

– Full PhD Scholarship from UniTN · PicsArt AI Research (PAIR) · 2022–2025
– AI4Media Junior Fellows Exchange Program Scholarship · Visiting Research Student · Queen Mary University of London (UK) · 2022

`Google Scholar`
`moreno98.github.io`
`MorenoDinca`
`moreno-dinca`
`Moreno98`
`moreno.dinca@unitn.it`

Selected Publications

06/2024 — **OpenBias: Open-set Bias Detection in Text-to-Image Generative Models**
IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR) · Highlight
In this paper, we tackle open-set bias detection in Text-to-Image generative models by proposing a novel method that leverages recent advancements in foundation models to detect and quantify biases automatically, removing the need of a pre-defined list of biases.

01/2024 — **Improving Fairness using Vision-Language Driven Image Augmentation**
IEEE/CVF Winter Conference on Applications of Computer Vision (WACV)
In this paper, we show how properly generated and edited images can debias a classifier trained on a biased training set.

08/2023 — **Unleashing the Transferability Power of Unsupervised Pre-Training for Emotion Recognition in Masked and Unmasked Facial Images**
IEEE Access
In this paper, we show the importance of unsupervised feature learning in the context of emotion recognition.

Education

2022–current — **PhD in Computer Science**
University of Trento (UniTN)
Trento, Italy

2020–2022 — **MSc in Artificial Intelligence Systems**
University of Trento (UniTN)
Trento, Italy
Grade: 110/110 with Honors

2022 — **Visiting Research Student**
Queen Mary University of London (QMUL)
London, United Kingdom

2017–2020 — **BSc in Computer Science**
University of Trento (UniTN)
Trento, Italy
Grade: 106/110

Work Experience

2022–2023 — **Junior Research Fellow**
AI4Media
London, UK

2020–2021 — **Intern**
Vui, Inc
Trento, Italy – Boston MA, USA

2019–2021 — **Full–Stack Developer**
E-Agle Trento Racing Team
Trento, Italy

Programming Skills

- PyTorch
- Python
- TensorFlow
- C++, Java, SQL
- Javascript
- HTML, CSS

Spoken Languages

Italian	C2	mother tongue
English	C1	● ● ● ○